

Claims

- [c1] What is claimed is:
1. A method for dynamically adjusting an operational frequency of a digital processing device comprising:
selecting a frequency operational mode;
setting a range of operational frequencies according to the frequency operational mode; and
selecting an operational frequency within the frequency range for running the digital processing device.
 - [c2] 2. The method of claim 1, wherein the frequency operational mode is used for assigning a variation tolerance of the operational frequency.
 - [c3] 3. The method of claim 1 being performed in a video graphics adapter (VGA).
 - [c4] 4. The method of claim 1 capable of being used for adjusting the operational frequency by changing a core clock, a memory clock or both of them.
 - [c5] 5. The method of claim 1 being performed in a central processing unit (CPU).
 - [c6] 6. A method for dynamically adjusting an operational

frequency of a digital processing device comprising:

(a) setting a frequency range; and

(b) selecting an operational frequency in the frequency range for running the digital processing device.

[c7] 7. The method of claim 6, wherein step (a) further comprises:

(a1) selecting a frequency operational mode; and

(a2) setting a range of operational frequencies according to the frequency operational mode.

[c8] 8. The method of claim 7, wherein the frequency operational mode is used for assigning a variation tolerance of the operational frequency.

[c9] 9. The method of claim 6 being performed in a video graphics adapter (VGA).

[c10] 10. The method of claim 6 capable of being used for adjusting the operational frequency by changing a core clock, a memory clock or both of them.

[c11] 11. The method of claim 6 being performed in a central processing unit (CPU).

[c12] 12. The method of claim 6 further comprising determining being enabled by a user.

[c13] 13. A system for dynamically adjusting an operational

frequency of a digital processing device, comprising:
an interface unit for receiving an external command to select a frequency operational mode;
a setting unit, coupled to the interface unit, for setting a frequency range according to the frequency operational mode; and
a processing unit, coupled to the setting unit, for selecting an operational frequency in the frequency range.

[c14] 14. The system of claim 13, wherein the frequency operational mode is used for assigning a variation tolerance of the operational frequency.

[c15] 15. The system of claim 13, wherein the operational frequency is capable of being adjusted by changing a core clock, a memory clock or both of them.

[c16] 16. The system of claim 13 capable of determining being enabled by a user.

[c17] 17. The system of claim 13, wherein the setting unit is built within the processing unit.